

Interoffice Memorandum

From: Eric CHAPOULAUD

Date: September 30, 1997

To: Albert RUIZ VELA

Subject: Monthly Report – September 1997
Product Development
& Engineering

ORMCO CONFIDENTIAL
AND PROPRIETARY
INFORMATION –

*DO NOT COPY
OR DISTRIBUTE*

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION
9709_rec.doc

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION

ORTHODONTIC PRODUCTS	4
NEW PRODUCT DEVELOPMENT ACTIVITIES.....	Error!
BRACKETS / BUCCAL TUBES	4
<i>Alexander Spirit BRACKETS.....</i>	<i>4</i>
<i>SELF LIGATING BRACKET</i>	<i>4</i>
<i>BURSTONE Orthos CUSPID BRACKET with HORIZONTAL TUBE</i>	<i>4</i>
<i>TOOTH SHAPED PAD</i>	<i>5</i>
<i>TAKEMOTO LINGUAL APPLIANCE</i>	<i>5</i>
BANDS	5
<i>TEXTURED MOLAR BANDS.....</i>	<i>5</i>
INTRA ORAL	6
<i>MOLDED Mini-Stick Power Os</i>	<i>6</i>
<i>LOW COST RPE</i>	<i>6</i>
<i>Orthos LIP BUMPER</i>	<i>6</i>
<i>MANDIBULAR ANTERIOR REPOSITIONING APPLIANCE (Dr. Eckhart).....</i>	<i>7</i>
<i>D.O. MANDIBULAR WIDENING DEVICE</i>	<i>7</i>
INSTRUMENTS	7
<i>FLUSH CUT DISTAL-END CUTTER</i>	<i>7</i>
ADHESIVES	8
<i>THICK LIGHT CURE ADHESIVE - Enlight</i>	<i>8</i>
RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS	8
BRACKETS / BUCCAL TUBES	8
<i>Orthos CM_F in Spirit MB</i>	<i>8</i>
<i>Custom R, CUSTOM LABIAL APPLIANCE SYSTEM</i>	<i>9</i>
<i>ADHESIVE PRECOAT BRACKETS</i>	<i>9</i>
<i>TITANIUM BRACKET</i>	<i>10</i>
<i>TITANIUM BUCCAL TUBE - MIM PROCESS</i>	<i>10</i>
<i>Wildman LINGUAL BRACKET</i>	<i>10</i>
<i>SINGLE-PIECE BRACKET</i>	<i>11</i>
BANDS	11
<i>TITANIUM BANDS</i>	<i>11</i>
WIRE	11
<i>TITANIUM ALLOY WIRE</i>	<i>11</i>
<i>GOLD ARCHES</i>	<i>12</i>
<i>REVERSE-CURVE Copper Ni-Ti ARCHWIRES</i>	<i>12</i>
INTRA ORAL	12
<i>ORMCO CLASS II JUMPER</i>	<i>12</i>
<i>IMPROVED POWER CHAIN</i>	<i>13</i>
EXTRA ORAL	13
<i>WEDGE-SHAPED NECK STRAP</i>	<i>13</i>
SUPPLIES / DISPENSING SYSTEMS	13
<i>UNI-BRACKET PACKAGING</i>	<i>14</i>
<i>ARCH MEASURING TEMPLATE</i>	<i>14</i>
ADHESIVES	14
<i>MOISTURE-RESISTANT ADHESIVE</i>	<i>14</i>
<i>LINGUAL RETAINER ADHESIVE</i>	<i>14</i>
<i>ONE COMPONENT BAND CEMENT</i>	<i>15</i>
INSTRUMENTS	15
<i>MARA THREE-JAW PLIER</i>	<i>15</i>
<i>MARA TORQUE TOOL</i>	<i>15</i>
MISCELLANEOUS	16
<i>MATERIAL RESEARCH</i>	<i>16</i>

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION

PRODUCT IMPROVEMENT / MANUFACTURING SUPPORT ACTIVITIES.....	16
<i>IMPROVED OPTIMESH.....</i>	16
<i>CE MARKING</i>	16
<i>BRACKET PLACEMENT IMPROVEMENT</i>	17
<i>AOA (LABORATORY) ENGINEERING SUPPORT.....</i>	<i>Error!</i>
<i>AEZ / ETM INSTRUMENT SUPPORT.....</i>	16
<i>CUSTOM BRAZE</i>	17
ENDODONTIC PRODUCTS	17
NEW PRODUCT DEVELOPMENT.....	17
<i>Post Remover Kit EIE Endo</i>	17
RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS	18
<i>Buchanan HAND PLUGGER.....</i>	18
MISCELLANEOUS DEPARTMENT ACTIVITIES.....	18
<i>CAPITAL APPROPRIATION REQUESTS.....</i>	18
PRODUCTS CURRENTLY ON INACTIVE STATUS.....	18

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION**ORTHODONTIC PRODUCTS****RESEARCH AND EXPLORATORY PRODUCT INVESTIGATIONS****BRACKETS / BUCCAL TUBES****CustomRx CUSTOM LABIAL APPLIANCE SYSTEM (Project 853-E Craig Andreiko/Eric Chapoulaud)**

- a. Lab Reopening (Craig Andreiko)
 - 1) Accomplishments / Status
 - Scanned image of the PK Thomas Case lower Jaw
 - Created new software modules to calculate the set-up of the lower jaw: the mandibular skeletal bone can be defined by the operator along with the mesio-distal width of the lowers 7x7, using photographic recomposition of the scanned model.
 - Successfully printed upper bracket tree (3 samples) and had them setup for casting.
 - 2) Goals For October
 - Implement new modules in the set-up programs to create the mandibular set-up and adapt the occlusion with the maxillary set-up.
 - Test the casting process of the bracket trees.
 - Manufacture the new jigs with the new attachment.
 - Assemble the upper case, using casted brackets and new jigs.
 - 3) Major Project Milestone
 - ◎ Lower/Uppers Setup for the PK Thomas case: November 97
- b. 3D Digitizing (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - No Action this month.
 - 2) Goals For October
 - A malpositioned case will be scanned to be used as test data with the new set-up software being developed.
 - 3) Major Project Milestone
 - ◎ First Clinical case scan: November 97.
- c. Bracket Fabrication (Eric Chapoulaud)
 - 1) Accomplishments / Status
 - Software upgrade of the ModelMaker II Driver was installed, along with modifications in the parameters file. It improved jet reliability and parts quality.
 - 2) Goals For October
 - Print parts to check for accuracy and reliability.

ORMCO CONFIDENTIAL AND PROPRIETARY INFORMATION

- 3) Major Project Milestone
 - ◎ Reliable printing operation: October 97.